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NOTICE OF ALLOWANCE AND FEE(S) DUE

31779

7500

05/01/2009

JOHN A. SMART 201 LOS GATOS SARATOGA RD, #161 LOS GATOS, CA 95030-5308

EXAMINER				
MORRISON, JAY A				
ART UNIT	PAPER NUMBER			

2168

DATE MAILED: 05/01/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,931	10/13/2004	Sudipto R. Chowdhuri	SYB/0114.00	5930

TITLE OF INVENTION: DATABASE SYSTEM WITH METHODOLOGY FOR PARALLEL SCHEDULE GENERATION IN A QUERY OPTIMIZER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/03/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

maintenance fee notifica	correspondence including debelow or directed other tions. ENCE ADDRESS (Note: Use Bl	•	Fe	ote: A certificate of	mailin	g can only be used for	or domestic mail	ings of the
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JOHN A. SMA 201 LOS GATO SARATOGA R	ART OS D, #161	./2009	I l Sti ad tra	Ce hereby certify that the lates Postal Service of dressed to the Mai husmitted to the USI	rtificatenis Fee(with suft Stop TO (57	e of Mailing or Trans (s) Transmittal is being fficient postage for fir ISSUE FEE address (1) 273-2885, on the d	mission g deposited with st class mail in a above, or being ate indicated bel	the United in envelope g facsimile ow.
LOS GATOS, C	CA 95030-5308						(Дер	ositor's name)
								(Signature)
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10/711,931	10/13/2004		Sudipto R. Chowdhuri			SYB/0114.00	5930	
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE		E FEE	TOTAL FEE(S) DUE		
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MORRISO	ON, JAY A	2168	707-003000	_				
"Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	ND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Comp	"Indication form led. Use of a Customer A TO BE PRINTED ON lifted below, no assignee	(1) the names of up or agents OR, alterna (2) the name of a single registered attorney of a registered patent at listed, no name will be THE PATENT (print or the data will appear on the T a substitute for filing a (B) RESIDENCE: (CIT	gle firm (having as agent) and the nan torneys or agents. If e printed. ype) patent. If an assign assignment.	a membres of unit no nam	per a 2p to ne is 3dentified below, the d	ocument has bee	en filed for
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🗖 C	orporat	ion or other private gr	oup entity 🗖 G	overnment
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies 5. Change in Entity Status (from status indicated above)			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
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NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepte ites Patent and Trademark	ed from anyone other than					ner party in
Authorized Signature				Date				_
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

OMB 0651-0033

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201 LOS GATOS SARATOGA RD,			ART UNIT	PAPER NUMBER

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 199 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 199 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	 10/711,931	CHOWDHURI, SUDIP	TO R.
Notice of Allowability	Examiner	Art Unit	
	JAY A. MORRISON	2168	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate completers. This application is	in this application. If not included munication will be mailed in due co	ourse. THIS
2. X The allowed claim(s) is/are 1-15,17,20,21,23-40,44,45,47-	<u>62,65,66 and 68-70</u> .		
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Applica	tion No	n from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") must		or declaration is deficient.	
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Revi	ew (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1			ack) of
each sheet. Replacement sheet(s) should be labeled as such in t 6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MA	TERIAL must be submitted. No	te the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Paper N 7. ☐ Examiner	Informal Patent Application Summary (PTO-413), o./Mail Date 's Amendment/Comment 's Statement of Reasons for Allowa	ance
	/Tim T. Vo/ Supervisory F	Patent Examiner, Art Unit 2168	

DETAILED ACTION

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Claims 1-15, 17, 20, 21, 23-40, 44, 45, 47-62, 65, 66 and 68-70 are allowable over the prior art of record. The closest prior art of record Srivastava, teaches using a cost model for developing analytical cost expressions for individual operations and combining the expressions to obtain costs for entire plans, however it fails to teach splitting pipelines and adding operators in parallel so that resource usage is distributed over the pipelines, these limitations being indicated in claim 1 as "determining resource usage of each pipeline and splitting a particular pipeline having resource usage greater than resources available for executing the particular pipeline into a plurality of pipelines by adding operators for performing operations in parallel so that resource usage is distributed over the plurality of pipelines", claim 26 as "determines resource usage of each pipeline and splits a particular pipeline having resource usage greater than resources available for executing the particular pipeline into a plurality of pipelines by adding operators for performing operations in parallel so that resource usage is distributed over the plurality of pipelines" and claim 48 as "determining resource usage of each pipeline and splitting a particular pipeline having resource usage greater than resources available for executing the particular pipeline into a plurality of pipelines by

adding operators for performing operations in parallel so that resource usage is distributed over the plurality of pipelines".

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jay A. Morrison whose telephone number is (571) 272-7112. The examiner can normally be reached on M-F 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Vo can be reached on (571) 272-3642. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/711,931

Art Unit: 2168

Page 4

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

/Tim T. Vo/

Supervisory Patent Examiner, Art Unit 2168

Jay Morrison TC2100 Tim Vo TC2100